

What is claimed is:

1. A device for holding an active agent-containing composition, the device comprising:  
5 a support substrate;  
a pattern of adhesive in contact with one side of the support substrate; and  
an array of discrete film segments removably attached to the support substrate by contact with the pattern of adhesive, each film segment including the active agent-containing composition.  
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2. A device according to claim 1, wherein the one side of the support substrate, the array of discrete film segments, and the pattern of adhesive are sterile.
3. A device according to claim 1, wherein the pattern of adhesive comprises parallel  
15 lines.
4. A device according to claim 1, wherein the adhesive is substantially inert to the film segments.
- 20 5. A device according to claim 1, the device further comprising a container for holding the support substrate, the pattern of adhesive, and the array of discrete film segments.
6. A device according to claim 1, wherein the support substrate is transparent.  
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7. A device according to claim 1, wherein each discrete film segment includes a uniform quantity of an active agent.
8. A device according to claim 1, wherein the active agent-containing composition is  
30 utilized in an application that includes at least one of therapeutics, cosmetics, food supplements, wound healings, herbals, botanicals, aromatherapy, veterinary applications, agrochemicals, and cleansing applications.

9. A device for holding an active agent-containing composition, the device comprising:
- a support substrate;
  - an array of discrete film segments removably attached to one side of the support
  - 5 substrate, each film segment including the active agent-containing composition; and
  - a sealing material, the material covering the array of discrete film segments, a surface of the material heat sealed to the one side of the support substrate at locations surrounding at least one discrete film segment.
- 10 10. A device according to claim 9, wherein the one side of the support substrate, the array of discrete film segments, and the surface of the sealing material heat sealed to the one side of the support substrate are configured to be sterile.
11. A device according to claim 9, wherein the surface of the sealing material is heat
- 15 sealed to the one side of the support substrate at locations surrounding each discrete film segment.
12. A device according to claim 9, wherein at least one selected portion of the surface of the sealing material includes a non stick coating to reduce adhesion between the film
- 20 segments and the sealing material.
13. A device according to claim 9, wherein the array of discrete film segments are comprised of dried polymer gel.
- 25 14. A device according to claim 9, wherein the support substrate comprises paper.
15. A device according to claim 9, wherein the support substrate comprises a plastic sheet.
- 30 16. A device according to claim 9, wherein the one side of the support substrate comprises a coat of polyethylene.
17. A device according to claim 16, wherein the coat of polyethylene is glossy.

18. A device according to claim 17, wherein the coat of polyethylene is unexposed to Corona treatment.
19. A device according to claim 18, wherein the sealing material comprises a  
5 polyester sheet double-side coated with polyethylene, the surface of the polyester sheet heat sealed to the one side of the support substrate being glossy.
20. A device according to claim 19, wherein the polyester sheet double-side coated with polyethylene is configured to be ultra-dimensional stable.
- 10 21. A device according to claim 9, wherein corners of the support substrate are detached from the sealing material.
22. A device according to claim 9, wherein the support substrate is transparent.
- 15 23. A device according to claim 9, wherein the sealing material is transparent.
24. A device according to claim 9, wherein the sealing material is tear resistant.
- 20 25. A device according to claim 9, wherein each discrete film segment includes a uniform quantity of an active agent.
26. A device according to claim 9, wherein the active agent-containing composition is utilized in an application that includes at least one of therapeutics, cosmetics, food  
25 supplements, wound healings, herbals, botanicals, aromatherapy, veterinary applications, agrochemicals, and cleansing applications.
27. A device for holding a composition, the device comprising:  
a support substrate;  
30 an array of discrete dosage units removably attached to one side of the support substrate, each dosage unit including the composition; and  
a sealing material, the sealing material covering the array of discrete dosage units, a surface of the sealing material reattachably adhering to the one side of the support substrate by a pressure sensitive adhesive.

28. A device according to claim 27, wherein the array of discrete dosage units is an array of discrete film segments.
- 5 29. A device according to claim 28, wherein the array of discrete film segments are comprised of dried polymer gel.
30. A device according to claim 27, wherein the one side of the support substrate, the array of discrete dosage units, and the surface of the sealing material reattachably  
10 adhering to the one side of the support substrate are configured to be sterile.
31. A device according to claim 27, wherein the surface of the sealing material is reattachably adhered to the one side of the support substrate such that at least one discrete dosage unit is surrounded by a reattachably adhered contact area between the sealing  
15 material and one side of the support substrate.
32. A device according to claim 31, wherein at least one selected portion of the surface of the sealing material includes a non stick coating to reduce adhesion between the dosage units and the sealing material.  
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33. A device according to claim 27, wherein the support substrate comprises paper.
34. A device according to claim 27, wherein the support substrate comprises a plastic sheet.  
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35. A device according to claim 27, wherein the support substrate is reattachably adhered to the sealing material by pressure sensitive adhesive applied such that at least one corner of the support substrate is detached from at least one corner of the sealing material.  
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36. A device according to claim 27, wherein the support substrate is transparent.
37. A device according to claim 27, wherein the sealing material is transparent.

38. A device according to claim 27, wherein the sealing material is tear resistant.
39. A device according to claim 27, wherein each discrete dosage unit includes a uniform quantity of the composition.
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40. A device for holding a composition, the device comprising:  
a support substrate;  
an array of dosage units contacting one side of the support substrate, each dosage unit including the composition; and  
10 a surface of a sealing material covering the array of dosage units,  
wherein at least one selected portion of the surface of the sealing material includes a non stick coating where the sealing material contacts the dosage units.
41. A device according to claim 40, wherein the non stick coating includes one of a  
15 fluorochemical and silicon-based compound.
42. A device according to claim 40, wherein the surface of the sealing material is attached to the support substrate, and the at least one portion of the surface of the sealing material does not include a location where the sealing material is attached to the support  
20 substrate.
43. A device according to claim 40, wherein the array of dosage units is an array of discrete film segments attached to the support substrate.
- 25 44. A device according to claim 40, wherein the at least one selected portion of the surface of the sealing material is a plurality of locations corresponding to locations where the sealing material contacts each dosage unit.
45. A device according to claim 40, wherein the at least one selected portion of the  
30 surface of the sealing material is one continuous area.
46. A device according to claim 40, wherein the array of dosage units adheres to the one side of the support substrate by interposed adhesive.

47. A device for holding an active agent-containing composition comprising:  
a support substrate; and  
a dried solution layer removably attached to the support substrate, the dried  
solution layer having the active agent-containing composition.
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48. A device according to claim 47, wherein the dried solution layer is configured to  
deliver the active agent-containing composition to a patient by direct contact of the dried  
solution layer with the patient.
- 10 49. A device according to claim 47, wherein the active agent-containing composition  
includes a colorant to visually distinguish the dried solution layer from the support  
substrate.
50. A device according to claim 47, wherein the active agent-containing composition  
15 is utilized in an application that includes at least one of therapeutics, cosmetics, food  
supplements, wound healings, herbals, botanicals, aromatherapy, veterinary applications,  
agrochemicals, and cleansing applications.
51. A method of holding an active agent-containing composition, the method  
20 comprising:  
providing a final support substrate, one side of the substrate in contact with a  
pattern of adhesive;  
removably attaching a film including the active agent-containing composition to  
the final support substrate, the film in contact with the pattern of adhesive; and  
25 segmenting the film attached to the final support substrate into an array of discrete  
film segments attached to the final support substrate.
52. A method according to claim 51, the method further comprising sterilizing the  
array of film segments, the pattern of adhesive, and the one side of the final support  
30 substrate.
53. A method according to claim 51, wherein the pattern of adhesive comprises  
parallel lines.

54. A method according to claim 51, the method further comprising enclosing the final support substrate, the pattern of adhesive, and the array of discrete film segments in a container.
- 5 55. A method according to claim 51, wherein removably attaching the film includes contacting a film removably attached to an initial support substrate with the pattern of adhesive, the initial support substrate located on a side of the film opposite the pattern of adhesive; and  
delaminating the initial support substrate from the film.
- 10 56. A method according to claim 55, wherein a side of the initial support substrate in contact with the film is treated with a fluorochemical.
57. A method according to claim 55, wherein a side of the initial support substrate in  
15 contact with the film is coated with silicon-based compound.
58. A method according to claim 51, wherein segmenting the film includes removing portions of the film from the final support substrate.
- 20 59. A method according to claim 51, wherein the steps are performed by a continuous process.
60. A method according to claim 51, wherein each discrete film segment includes a uniform quantity of an active agent.
- 25 61. A method according to claim 51 further comprising:  
superposing a sealing material over the array of discrete film segments attached to the final support substrate, the sealing material including a non-stick coating on at least a portion of the surface of the sealing material,  
30 wherein the non-stick coating reduces adhesion between the surface of the sealing material and at least one film segment when the sealing material contacts the at least one film segment.

62. A method according to claim 51, wherein the active agent-containing composition is utilized in an application that includes at least one of therapeutics, cosmetics, food supplements, wound healings, herbals, botanicals, aromatherapy, veterinary applications, agrochemicals, and cleansing applications.
- 5 63. A method for holding an active agent-containing composition, the method comprising:
- applying a film including the active agent-containing composition on a portion of one side of a support substrate;
  - 10 segmenting the film into an array of discrete film segments on the one side, the discrete film segments being removable from the support substrate;
  - superposing a sealing material over the array of discrete film segments on the support substrate; and
  - 15 heat sealing a surface of the sealing material to the one side of the support substrate at locations surrounding at least one film segment.
64. A method according to claim 63, wherein the method further comprises sterilizing the one side of the support substrate, the array of film segments, and the surface of the sealing material.
- 20 65. A method according to claim 64, wherein sterilizing includes exposing the one side of the support substrate, the array of film segments, and the surface of the sealing material to at least one of gamma irradiation and electron beam irradiation.
- 25 66. A method according to claim 63, wherein heat sealing the sealing material includes heat sealing at locations surrounding each film segment.
67. A method according to claim 63, wherein the film is a polymer gel, the method further comprises drying the polymer gel after applying the film to the support substrate, 30 but before segmenting the film.
68. A method according to claim 63, wherein the support substrate comprises paper.



69. A method according to claim 63, wherein the support substrate comprises a plastic sheet.
70. A method according to claim 63, wherein the one side of the support substrate  
5 comprises a coat of polyethylene.
71. A method according to claim 70, wherein the coat of polyethylene is glossy.
72. A method according to claim 71, wherein the coat of polyethylene is unexposed to  
10 Corona treatment.
73. A method according to claim 72, wherein the sealing material comprises a polyester sheet double-side coated with polyethylene, the surface of the polyester sheet heat sealed to the one side of the support substrate being glossy.  
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74. A method according to claim 73, wherein the polyester sheet double-side coated with polyethylene is configured to be ultra-dimensional stable.
75. A method according to claim 63, wherein heat sealing includes leaving at least  
20 one corner of the support substrate detached from at least one corner of the sealing material.
76. A method according to claim 63, wherein the segmenting the film includes removing a portion of the film.  
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77. A method according to claim 63, wherein each discrete film segment includes a uniform quantity of an active agent.
78. A method according to claim 63 further comprising:  
30 applying a non-stick coating to at least a portion of the surface of the sealing material, the non-stick coating reducing adhesion between the surface of the sealing material and at least one film segment when the sealing material contacts the at least one film segment, the non-stick coating applied before superposing the sealing material.

79. A method according to claim 63, wherein the active agent-containing composition is utilized in an application that includes at least one of therapeutics, cosmetics, food supplements, wound healings, herbals, botanicals, aromatherapy, veterinary applications, agrochemicals, and cleansing applications.

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80. A method for holding a composition, the method comprising:  
providing an array of discrete dosage units on one side of a support substrate, each dosage unit including the composition, and being removable from the support substrate;  
superposing a sealing material over the array of discrete dosage units on the

10 support substrate; and

applying pressure to at least one location having pressure sensitive adhesive between the sealing material and the support substrate to rettachably adhere the sealing material to the support substrate.

15 81. A method according to claim 80, wherein the method further comprises sterilizing the one side of the support substrate, the array of dosage units, and the surface of the sealing material.

82. A method according to claim 80, wherein, in applying pressure, the at least one  
20 location having pressure sensitive adhesive surrounds at least one dosage unit.

83. A method according to claim 82, wherein, in applying pressure, the at least one location having pressure sensitive adhesive surrounds each dosage unit.

25 84. A method according to claim 80, wherein, in providing the array, the one side of the support substrate includes a pressure sensitive adhesive.

85. A method according to claim 80, wherein, in superposing, the sealing material includes a pressure sensitive adhesive.

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86 A method according to claim 80, wherein the array of discrete dosage units is an array of discrete film segments, and providing the array includes:

applying a film including the composition on a portion of one side of a support substrate; and

segmenting the film into an array of discrete film segments on the one side.

87. A method according to claim 86, wherein the film is a polymer gel, the method further comprises drying the polymer gel after applying the film to the support substrate,  
5 but before segmenting the film.

88. A method according to claim 86, wherein the segmenting the film includes removing a portion of the film.

10 89. A method according to claim 80, wherein, in applying pressure, the at least one location having pressure sensitive adhesive excludes at least one corner of the sealing material and at least one corner of the support substrate.

90. A method according to claim 80, wherein each discrete dosage unit includes a  
15 uniform quantity of the composition.

91. A method according to claim 80 further comprising:  
applying a non-stick coating to at least a portion of a surface of the sealing material reattachably adhering to the support substrate, the non-stick coating reducing  
20 adhesion between the sealing material and at least one dosage unit when the sealing material contacts the at least one dosage unit, the non-stick coating applied before superposing the sealing material.

92. A method for holding an active agent-containing composition, the method  
25 comprising:  
providing a substrate;  
forming a plurality of blister cavities in the substrate;  
covering the substrate with a film including the active agent-containing composition;  
30 displacing segments of film from the film into each blister cavity;  
removing the film unassociated with the segments of film;  
superposing a sealing material, the sealing material covering the segments of film and in contact with the substrate; and

attaching the sealing material at a plurality of locations where the sealing material and substrate are in contact.

93. A method according to claim 92, wherein the forming the plurality of blister  
5 cavities and the displacing the film occurs substantially simultaneously.

94. A method according to claim 92, wherein the displacing of film segments includes punching the film to displace the film segments into the blister cavities.

10 95. A method according to claim 92, wherein the attaching the sealing material comprises heat sealing.

96. A method according to claim 92, wherein the attaching the sealing material includes applying pressure to the plurality of locations, the plurality of locations having a  
15 pressure sensitive adhesive between the sealing material and the substrate.

97. A method according to claim 92, wherein the sealing material comprises lacquered aluminum foil.

20 98. A method according to claim 92, wherein each segment of film includes a uniform quantity of an active agent.

99. A method according to claim 92, wherein the active agent-containing composition is utilized in an application that includes at least one of therapeutics, cosmetics, food  
25 supplements, wound healings, herbals, botanicals, aromatherapy, veterinary applications, agrochemicals, and cleansing applications.

100. A method for holding an active agent-containing composition, the method comprising:

30 providing a substrate with a plurality of blister cavities;  
providing quantities of the active agent-containing composition, each quantity contained in one of the plurality of blister cavities;  
superposing a sealing material, the material covering the quantities of the active agent and in contact with the substrate; and

attaching the sealing material at a plurality of locations where the sealing material and substrate are in contact.

101. A method according to claim 100, wherein the attaching the sealing material  
5 comprises heat sealing.

102. A method according to claim 100, wherein the attaching the sealing material includes applying pressure to the plurality of locations, the plurality of locations having a pressure sensitive adhesive between the sealing material and the substrate.

103. A method according to claim 100, wherein the active agent-containing composition is utilized in an application that includes at least one of therapeutics, cosmetics, food supplements, wound healings, herbals, botanicals, aromatherapy, veterinary applications, agrochemicals, and cleansing applications.

104. A method of applying a composition in a dosage unit to a dermal surface of a patient comprising:  
providing the dosage unit including the composition on a side of a final substrate that is larger in area than the dosage unit;  
20 holding the final substrate without touching the dosage unit;  
bringing the final substrate toward the dermal surface to bring the dosage unit into contact with the dermal surface; and  
pressing against the final substrate to apply the composition to the dermal surface.

105. A method according to claim 104 further comprising:  
moistening the dermal surface before the step of bringing the final substrate toward the dermal surface.

106. A method according to claim 105, wherein pressing against the final substrate  
30 includes rubbing the final substrate to facilitate application of the composition to the dermal surface.

107. A method according to claim 104, wherein pressing against the final substrate includes rubbing the final substrate to facilitate application of the composition to the

dermal surface.

108. A method according to claim 104, wherein the dosage unit is a film segment, and providing the dosage unit includes:
- 5       providing a dried solution forming a film on an intermediate substrate;  
          removing the film from the intermediate substrate;  
          forming a film segment from the film; and  
          attaching the film segment to the final substrate.
- 10   109. A method according to claim 104, wherein providing the dosage unit includes:  
          providing a substrate having a plurality of dosage units; and  
          separating the substrate into a plurality of final substrates, each final substrate  
          having at least one dosage unit.
- 15   110. A method according to claim 104, wherein providing the dosage unit includes:  
          providing a plurality of final substrates, each final substrate having at least one  
          dosage unit, each of the plurality of final substrates attached to at least one other final  
          substrate.
- 20   111. A method according to claim 110, wherein providing the plurality of final  
          substrates includes:  
          providing a substrate having a plurality of dosage units attached thereto; and  
          perforating the substrate to form the plurality of final substrates.
- 25   112. A method for holding an active agent-containing composition, the method  
          comprising:  
          intermittently applying a solution containing the active agent-containing  
          composition to a substrate; and  
          drying the intermittently applied solution to form film segments that are  
30   removably attached to the substrate.
113. A method according to claim 112, wherein intermittently applying a solution  
includes at least one of spraying, printing, and casting the solution intermittently.

114. A method according to claim 113, wherein printing the solution intermittently includes printing the solution on a fabric.

115. A method according to claim 113, wherein printing includes printing using a  
5 gavage-type process.

116. A method according to claim 112, wherein the film segments are configured to deliver the active agent-containing composition to a patient by directly contacting the film segments with the patient.

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117. A method according to claim 112, wherein the active agent-containing composition is utilized in an application that includes at least one of therapeutics, cosmetics, food supplements, wound healings, herbals, botanicals, aromatherapy, veterinary applications, agrochemicals, and cleansing applications.

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